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P#15

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RAW SEQUENCE LISTING

DATE: 06/28/2001

PATENT APPLICATION: US/09/524,531A

TIME: 16:11:04

Input Set : A:\11422679.app

Output Set: N:\CRF3\06282001\I524531A.raw

3 <110> APPLICANT: IMHOF, BEAT ALBET
4 AURRAND-LIONS, MICHEL
6 <120> TITLE OF INVENTION: VASCULAR ADHESION MOLECULES AND MODULATION OF THEIR
7 FUNCTION
9 <130> FILE REFERENCE: 11422/0264679
11 <140> CURRENT APPLICATION NUMBER: 09/524,531A
C--> 12 <141> CURRENT FILING DATE: 2001-06-18
14 <150> PRIOR APPLICATION NUMBER: EP 99.200746.8
15 <151> PRIOR FILING DATE: 1999-03-11
17 <160> NUMBER OF SEQ ID NOS: 21
19 <170> SOFTWARE: PatentIn Ver. 2.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 20
23 <212> TYPE: DNA
24 <213> ORGANISM: Artificial Sequence
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27 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
29 <220> FEATURE:
30 <221> NAME/KEY: modified_base
31 <222> LOCATION: (6) /
32 <223> OTHER INFORMATION: a, t, c, g, other or unknown
34 <220> FEATURE:
35 <221> NAME/KEY: modified_base
36 <222> LOCATION: (10)..(12) /
37 <223> OTHER INFORMATION: a, t, c, g, other or unknown
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44 <211> LENGTH: 20
45 <212> TYPE: DNA
46 <213> ORGANISM: Artificial Sequence
48 <220> FEATURE:
49 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
51 <220> FEATURE:
52 <221> NAME/KEY: modified_base
53 <222> LOCATION: (10)..(12) /
54 <223> OTHER INFORMATION: a, t, c, g, other or unknown
56 <400> SEQUENCE: 2
W--> 57 **taycrgtgyn nngcytcyaa** 20
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61 <211> LENGTH: 20
62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
68 <220> FEATURE:
69 <221> NAME/KEY: modified_base

ENTERED

See p. 5

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70 <222> LOCATION: (10)..(12) /
71 <223> OTHER INFORMATION: a, t, c, g, other or unknown
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78 <211> LENGTH: 18
79 <212> TYPE: DNA
80 <213> ORGANISM: Artificial Sequence
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83 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
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89 <210> SEQ ID NO: 5
90 <211> LENGTH: 19
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
97 <400> SEQUENCE: 5
98 cgacaggtgt cagataaca 19
101 <210> SEQ ID NO: 6
102 <211> LENGTH: 16
103 <212> TYPE: DNA
104 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
109 <400> SEQUENCE: 6
110 caccctcctc actcgt 16
113 <210> SEQ ID NO: 7
114 <211> LENGTH: 18
115 <212> TYPE: DNA
116 <213> ORGANISM: Artificial Sequence
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119 <223> OTHER INFORMATION: Description of Artificial Sequence: primer used
120 for detection of JAM-2 transcript
122 <400> SEQUENCE: 7
123 gactcacaga caagtgac 18
126 <210> SEQ ID NO: 8
127 <211> LENGTH: 16
128 <212> TYPE: DNA
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Description of Artificial Sequence: primer used
133 for detection JAM-2 transcript
135 <400> SEQUENCE: 8
136 caccctcctc actcgt 16
139 <210> SEQ ID NO: 9
140 <211> LENGTH: 25
141 <212> TYPE: DNA

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142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Description of Artificial Sequence: primer for
146     Hprt cDNA
148 <400> SEQUENCE: 9
149 gttggataca ggccagactt tgttg                                     25
152 <210> SEQ ID NO: 10
153 <211> LENGTH: 23
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: Description of Artificial Sequence: primer for
159     Hprt cDNA
161 <400> SEQUENCE: 10
162 gagggtaggc tggcctatag gct                                     23
165 <210> SEQ ID NO: 11
166 <211> LENGTH: 1943
167 <212> TYPE: DNA
168 <213> ORGANISM: Mus musculus
170 <400> SEQUENCE: 11
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172 tgcctgactt cttcctgctg ctgctcttca ggggctgcat gatagaggca gtgaatctca 120
173 aatccagcaa ccgaaaccca gtggtacatg aatttgaaag tgtggaattg tcttgcatca 180
174 ttacggactc acagacaagt gaccctagga ttgaatggaa gaaaatccaa gatggccaaa 240
175 ccacatatgt gtattttgac aacaagattc aaggagacct ggcaggctgc acagatgtgt 300
176 ttggaaaaac ttccctgagg atctggaatg tgacacgatc ggattcagcc atctatcgct 360
177 gtgaggctcg tgcctctaat gaccgaaaag aagttgatga gattaccatt gagttaattg 420
178 tgcaagtga ggcagtgacc cctgtctgca gaattccagc cgctgtacct gtaggcaaga 480
179 cggcaacact gcagtgccaa gagagcgagg gctatccccg gcctcactac agctggtacc 540
180 gcaatgatgt gccactgcct acagattcca gagccaatcc caggttccag aattcctctt 600
181 tccatgtgaa ctcgagagaca ggcactctgg ttttcaatgc tgtccacaag gacgactctg 660
182 ggcagtacta ctgcattgct tccaatgacg caggtgcagc caggtgtgag gggcaggaca 720
183 tggaaagtcta tgatttgaac attgctggga ttattggggg agtccttggt gtccttattg 780
184 ttcttgctgt gattacgatg ggcattctgt gtgcgtacag acgaggctgc ttcacacagca 840
185 gtaaacaaga tggagaaagc tataagagcc cagggaaagca tgacggtggt aactacatcc 900
186 ggacgagtga ggagggtgac ttcagacaca aatcgtcctt tgttatctga cacctgtcgg 960
187 ctgggagagc acatgcaagt acctctgttg gaagctggtc acagggtgct tgtgagccca 1020
188 gagctcctga caaagccacc cgggcagaag ctttttgttt tggccaaagt tgatgactcc 1080
189 ttccttctct ccttctctct taacaagcca caagaataaa aggaagcctc ctgaagatgg 1140
190 atgtagacac agattgttgc tagcctgacc tcattatggg gattaggggtg atcttcaagg 1200
191 cctttctggt ctccgttctc ccatgcaggg caatttggac tgtttttgcc ccaggctggt 1260
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193 caacagcctg atgcctgtga cagtgcacca ggaaggtttt caggcagtgc cttgctccct 1380
194 ggaccctgac ccaccgtggt gcctctgttg attggccagt actgtcattt ccacctgga 1440
195 gaatgtgttt ggaatcagca ttttataaaa aaccctaaatc agaaagggtga aattgcttgc 1500
196 tgggaagagg gctctgacct aggaaactct ccttcccaag agatgccagg agataggaga 1560
197 acctgtctgt cttaagtctg aaatggtact gaagtctcct tttctattgg tcttgcttat 1620
198 tttataaaaa tttaacattc taaattttgc tagagatgta ttttgattac tgaaaatttc 1680
199 tatataaact gtaaatatat tgccatacag tgtttcaaaa cgtatttttt tataatgagt 1740

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200 tcaacttaag gtagaaggct tgggctgcta gtgtttaatt ggaaaatacc agtagtaaag 1800
 201 tctttttaagg agtttttctta aggaggctgg ctgaatatct ctttgttcaa aagaagtttt 1860
 202 agcatttttc ataagaaaac ttactctgtc tgaccactgt tgcttaggaa accattaaag 1920
 203 aattccaatc taaaaaaaaa aaa 1943

206 <210> SEQ ID NO: 12

207 <211> LENGTH: 1631

208 <212> TYPE: DNA

209 <213> ORGANISM: Mus musculus

211 <400> SEQUENCE: 12

212 mcramcagaa ttcggcacga ggggtctgggg gcgggggggcc gacctacggg ttctccctca 60
 213 agagctaate tctgccgcca ctgccttagg accctgcgga caccgcgtcc cgcgtccacg 120
 214 ccctcccttc aacctcttc cacccttcaa aagaaggact gtccagacac cagctcctag 180
 215 ggccagaaga cctgccccca cgacagtcgc tggagacacc ccagaccgga gagactgaca 240
 216 tcgggacagg acccgcccct ctgcttccac ctctcaggga cctcctctgc tccgcccgcg 300
 217 ggcgaagtgc tgggagaccc agccgcctgt cgcgtcctg cagggggacc ctgagctagg 360
 218 cagccagctg gcgcccgcgt agatggcgag gagccccaa ggcctcctga tgctgctgct 420
 219 gctacactac ttgatcgtcg ccttggaact tcataaggca aatgggtttt ctgcatcaaa 480
 220 agaccaccgt caagaagtca cagtaataga gttccaagag gctatttttg cttgtaaaac 540
 221 cccaaagaag actacctcct ccagactgga gtggaagaag gtgggacagg ggggtctcctt 600
 222 ggtctactac caacaggctc tccaagggtga ctttaaagac cgtgctgaga tgatagattt 660
 223 caatatacga atcaaaaatg ttacaagaag tgatgctgga gagtatcgt gtgaagtcag 720
 224 cgctccgact gagcaaggcc agaacctgca ggaagataaa gtcagtctag aagtactagt 780
 225 ggtcctgct gttcctgcct gtgaagtgcc cacttctgtt atgactggaa gtgtggtgga 840
 226 gctacgatgc caggataaag aaggaaaccc agctccggag tacatctggt ttaaagatgg 900
 227 cacaagtgtg ctagggaatc caaaaggcgg cacacacaa aacagctcgt acacaaatga 960
 228 acacgaatct ggaattctgc aattcaacat gatttccaag atggacagtg gagagtatta 1020
 229 ctgcgaagcc cggaactctg tcggacaccg cagggtgccct gggaagcgaa tgcaagtaga 1080
 230 tgttctcaac ataagcggca tcatagcaac ggttggtggt gtggccttcg tgatttctgt 1140
 231 atgtggcctt ggcacatgct atgctcagag gaaaggctac ttttcaaaag aaacttcctt 1200
 232 ccagaagggc agtctctcat cttaaagtcac tacgatgggc gaaaatgatt tcaggcacac 1260
 233 aaaatccttt ataatttaaa agaattccag ttttgggctg cccaaaacca gttgtcacat 1320
 234 gttattaaaa tattgtaaaa ctctgtgtct tacacttgca aagtgatgaa gaaatatgaa 1380
 235 aggggagttc atcagaagtt ttatgatctc taactcacia gaaatatttt aagcaaaacg 1440
 236 ttcttgccat cactaaatta caacctggca tcttggtgtg acctaaagga aatgtctggt 1500
 237 aatattctgg tttttgaagg caaatgaatg tcagtttgga gttgactata tcacactgac 1560
 238 tgtaaggcta atccaagaag caagaatata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
 239 aaaaaaattt c 1631

242 <210> SEQ ID NO: 13

243 <211> LENGTH: 310

244 <212> TYPE: PRT

245 <213> ORGANISM: Mus musculus

247 <400> SEQUENCE: 13

248 Met Ala Leu Ser Arg Arg Leu Arg Leu Arg Leu Tyr Ala Arg Leu Pro
 249 1 5 10 15
 251 His Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Met Ile Glu Ala Val
 252 20 25 30
 254 Asn Leu Lys Ser Ser Asn Arg Asn Pro Val Val His Glu Phe Glu Ser
 255 35 40 45
 257 Val Glu Leu Ser Cys Ile Ile Thr His Ser Gln Thr Ser Asp Pro Arg

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258      50      55      60
260 Ile Glu Trp Lys Lys Ile Gln Asp Gly Gln Thr Thr Tyr Val Tyr Phe
261 65      70      75      80
263 Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Thr Asp Val Phe Gly
264      85      90      95
266 Lys Thr Ser Leu Arg Ile Trp Asn Val Thr Arg Ser Asp Ser Ala Ile
267      100      105      110
269 Tyr Arg Cys Glu Val Val Ala Leu Asn Asp Arg Lys Glu Val Asp Glu
270      115      120      125
272 Ile Thr Ile Glu Leu Ile Val Gln Val Lys Pro Val Thr Pro Val Cys
273      130      135      140
275 Arg Ile Pro Ala Ala Val Pro Val Gly Lys Thr Ala Thr Leu Gln Cys
276 145      150      155      160
278 Gln Glu Ser Glu Gly Tyr Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn
279      165      170      175
281 Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Gln Asn
282      180      185      190
284 Ser Ser Phe His Val Asn Ser Glu Thr Gly Thr Leu Val Phe Asn Ala
285      195      200      205
287 Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp
288      210      215      220
290 Ala Gly Ala Ala Arg Cys Glu Gly Gln Asp Met Glu Val Tyr Asp Leu
291 225      230      235      240
293 Asn Ile Ala Gly Ile Ile Gly Gly Val Leu Val Val Leu Ile Val Leu
294      245      250      255
296 Ala Val Ile Thr Met Gly Ile Cys Cys Ala Tyr Arg Arg Gly Cys Phe
297      260      265      270
299 Ile Ser Ser Lys Gln Asp Gly Glu Ser Tyr Lys Ser Pro Gly Lys His
300      275      280      285
302 Asp Gly Val Asn Tyr Ile Arg Thr Ser Glu Glu Gly Asp Phe Arg His
303      290      295      300
305 Lys Ser Ser Phe Val Ile
306 305      310
310 <210> SEQ ID NO: 14
311 <211> LENGTH: 298
312 <212> TYPE: PRT
313 <213> ORGANISM: Mus musculus
315 <400> SEQUENCE: 14
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317 1      5      10      15
319 Leu Ile Val Ala Leu Asp Tyr His Lys Ala Asn Gly Phe Ser Ala Ser
320      20      25      30
322 Lys Asp His Arg Gln Glu Val Thr Val Ile Glu Phe Gln Glu Ala Ile
323      35      40      45
325 Leu Ala Cys Lys Thr Pro Lys Lys Thr Thr Ser Ser Arg Leu Glu Trp
326      50      55      60
328 Lys Lys Val Gly Gln Gly Val Ser Leu Val Tyr Tyr Gln Gln Ala Leu
329 65      70      75      80
331 Gln Gly Asp Phe Lys Asp Arg Ala Glu Met Ile Asp Phe Asn Ile Arg

```

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

DATE: 06/28/2001

PATENT APPLICATION: US/09/524,531A

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Input Set : A:\11422679.app

Output Set: N:\CRF3\06282001\I524531A.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:539 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20